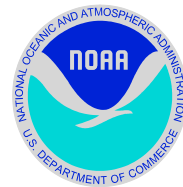


# NATIONAL WEATHER SERVICE

## COST MANAGEMENT PROGRAM GUIDE

FISCAL YEAR 2005

Version 2.1  
April 5, 2005



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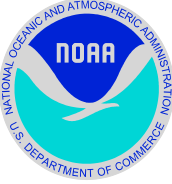
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## Document Purpose and Intended Audience

The purpose of this document is to provide guidance to the users of the NWS Cost Management (CM) System (CMS). The document covers use of the Labor Survey and the classification of Non-Labor costs through the mapping process.

The intended audience for this document is the users of CMS and the NWS Labor Survey.

## Authors

<p>Jeffrey Hare, CPA Business Objects NOAA 301-713-9050 X 183 Office 802-259-3327 <a href="mailto:jeffrey.hare@noaa.gov">jeffrey.hare@noaa.gov</a> <a href="mailto:jeffrey_hare@compuserve.com">jeffrey_hare@compuserve.com</a></p>  <p><b>BUSINESS OBJECTS®</b> <i>First in e-Business Intelligence™</i></p>	<p>Lynne Baronoff, CPA National Weather Service NOAA 301-713-9050 X 153 <a href="mailto:lynne.baronoff@noaa.gov">lynne.baronoff@noaa.gov</a></p>  <p><b>NOAA</b> NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION U.S. DEPARTMENT OF COMMERCE</p>
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## Version & Compatibility

This document was written in Microsoft Word® version 2003 and some features of the document may be unavailable or impaired if it is viewed in earlier versions or other products. It has also been published as a PDF.

## Related and Supporting Documents

A series of documents are available in the NWS Data Warehouse at <http://rims.nws.noaa.gov>. The documents are included in the category “CM2 Cost Mgmt – News & Documentation” and include:

1. Five Mapping Spreadsheets for CR (Continuing Resolution: Q1)
2. Five Mapping Spreadsheets for Post CR (After CR: Q2 – Q4)
3. OLD/NEW Project Code Cross Reference
4. Cost Object Master Listing
5. CM Program White Papers & Presentations

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## COST MANAGEMENT PROGRAM CONTACTS

Please contact one of the following NWS Headquarters CFO2 Office staff if you have any comments or questions regarding CMS.

Team Leader	Lynne Baronoff <a href="mailto:Lynne.Baronoff@noaa.gov">Lynne.Baronoff@noaa.gov</a> 301-713-9080 x 153
Labor Survey & Unassigned	Brian Gorton <a href="mailto:Brian.k.Gorton@noaa.gov">Brian.k.Gorton@noaa.gov</a> 301-713-9050 x 182
Reporting & Mapping	Jeffrey Hare <a href="mailto:Jeffrey.Hare@noaa.gov">Jeffrey.Hare@noaa.gov</a> 301-713-9050 x 183
Security & Access	John Lord <a href="mailto:John.Lord@noaa.gov">John.Lord@noaa.gov</a> 301-713-0453 x 185
Question of the Month, Outreach	Agnes Brown <a href="mailto:Agnes.Brown@noaa.gov">Agnes.Brown@noaa.gov</a> 301-713-9050 x 160
Report Analysis	Stephen Wills <a href="mailto:Stephen.Wills@noaa.gov">Stephen.Wills@noaa.gov</a> 301-713-9050 x 184

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## PROGRAM OVERVIEW

NWS began its CM Program in 1999 with Central Region as the pilot. The CM team worked closely with Central to design and implement the original system. CM was phased in for the remainder of NWS beginning in 2001. It should be noted that NWS was using FIMA as its General Ledger in 2002 and transitioned to CAMS/CBS beginning in 2003. It was only in 2003 that CM data became available for the entire NWS. For this reason, 2002 FIMA data is not available in the CM System.

The current CM Team comprises:

- Lynne Baronoff, Team Lead (NWS)
- Jeffrey Hare, Reporting (Business Objects)
- Agnes Brown, (NWS)
- Brian Gorton, Labor Survey (NWS)
- Stephen Wills, (NWS)

It should be noted that the current team has been in place since the beginning of 2004. The NWS CM System uses four major elements of technology:

1. Oracle – database environment
2. Business Objects – OLAP reporting tool
3. Perl – language in which the ‘Cooker’ quarterly processor is written
4. Java – language in which the Labor Survey is written

In summary, the NWS CM System does two things: (1) Allocates Labor to Cost Objects using a Web-based Labor Survey completed by and for each organization and (2) Systematically allocates Non-Labor to Cost Objects using a mapping table between Project/Task and Cost Object.

Beginning in FY2008, Cost Management will be mandated under FASAB’s Statement of Federal Financial Accounting Standards #4. The CM team is working to complete Stage II of the NWS CM Implementation, in order to achieve full compliance in advance of the deadline.

In recognition of its innovative financial and program management approach, the NWS has been cited as a model of effective government management. In 2001, NWS, as a whole, was recognized by Government Executive Magazine for its good management practices. The Cost Management Team received the 2003 NOAA Administrator’s Award for its contributions to NWS’ effective and efficient management. Additionally, NWS was cited as an example of effective cost accounting practices at the Association of Government Accountants’ 2003 Professional Development Conference. Finally, in 2004, NWS was one of only a small group of Federal agencies to receive high marks on the Office of Management and Budget’s (OMB’s) Program Assessment Rating Tool. In so doing, the NWS was able to better support its budgetary requests throughout the appropriations process.

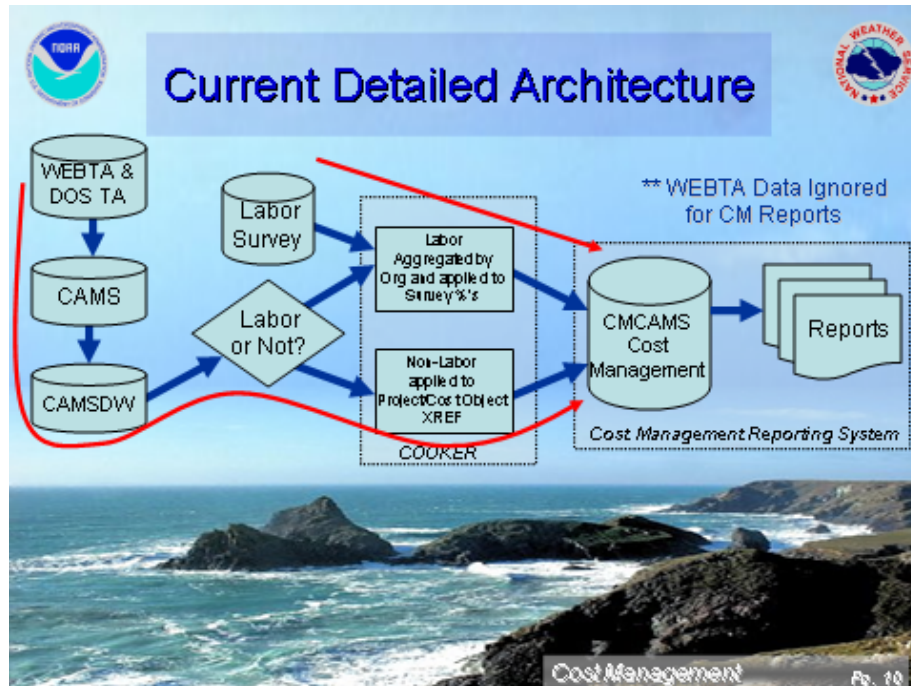
# INTRODUCTION TO THE GUIDE

This CM Program Guide is intended to provide NWS managers and their budget staff with the necessary guidance for reporting, accessing and using information in CMS. The guide provides information on how to report labor and non-labor costs against cost objects, as well as how to access and use the data generated by the CM Program.

Fiscal Year 2005 appropriation changes, along with the implementation of Planning, Programming, Budgeting and Execution System (PPBES), required updates in NWS project codes. As a result, this guide no longer covers the appropriate use of Project Codes. Development of FY2005 Project Codes was completed by the Comptroller's office and the coding scheme now reflects a PPBES breakdown. For questions regarding appropriate use of PPBES and Project Codes, contact the budget execution staff.

For FY2005, the Task Code Working Group defined a set of approximately 750 standard Task Codes which must be used in addition to the revised project codes. The combination of Project and Task is now required to fully code transactions for CAMS/CBS and CM.

The CM Team, using input from the FMCs, manages mapping the Project and Task Codes defined by the Comptroller's Office to the Cost Objects in CMS. Non-Labor mapping from CAMS/CBS to CM now occurs at the intersection of Project and Task Code. The graphic below illustrates the flow of information from CAMS/CBS into CMS.



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# COST MANAGEMENT CODING STRUCTURE

The objective of the CM Program is to assign expenditures to pre-established outputs (i.e. Cost Object) so managers can review, conduct analysis, promote efficiencies, and support budget requests. This assignment is unrelated to the funding source and can be summarized as follows:

- Identify resources (costs) used to run an organization or program, and
- Assign those resources (costs) to products and/or services (outputs)

By connecting expenditures to outputs, a cost management system provides managers with data to assist in analyzing operations and determining where efficiencies may be achieved.

The lowest level at which costs are accumulated is the Cost Object. A cost object is a grouping of activities for which specific data is to be reported. Cost Objects are grouped into nine Cost Categories. These are:

- **Services** – The development and preparation of weather and climate forecast products and severe/hazardous weather products.
- **Systems** – Activities related to weather information technology, including data acquisition/observing systems; data integration, analysis and modeling systems; and, dissemination systems. Systems also include telecommunications and other information technology.
- **Technology Infusion** – Research and similar activities, such as IFPS development, data assimilation, model development, guidance/product development and quality assessment and forecaster applications.
- **Outreach** – Activities and products designed for external audiences, which convey an awareness of the value and usefulness of NOAA/NWS science, products, programs and services in promoting personal safety, an improved economy, and more effective environmental stewardship.
- **Management/Administration** – Activities related to the overall management and direction of NWS resources to achieve the NWS mission. Management and administrative activities related to NWS program-specific services and systems are not included in this cost category.
- **Facilities** – includes all activities related to NWS facilities.
- **Earmarks & Special Projects** – The Congressional Earmarks and Special Projects cost category includes all activities that are separately identified in the NWS appropriation.
- **Reimbursable** – Activities that the NWS performs for other agencies.
- **Miscellaneous** – Includes only those costs that cannot otherwise be attributed to any other Cost Category.

For Cost Category definitions refer to the appendices.

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# WHAT'S NEW THIS YEAR

## ***CHANGES TO THE PROGRAM GUIDE:***

The FY2005 Program Guide has been streamlined and no longer contains the Project/Task Mapping. These mappings are available in the Data Warehouse in the “CM2 Cost Mgmt – News & Documentation” category.

## ***NEW COST OBJECT CODE(s) and RELATED DESCRIPTIONS:***

### 1.26 Surface Weather

All surface weather observing systems (AWOS, SAWRS, LAWRS) and the new NOAA Surface Weather Program for the Observing Systems Division. This program will support surface transportation across the nation with road-relevant observations, forecasts and warnings.

## ***UPDATED COST OBJECT DESCRIPTIONS:***

None

## ***QUARTERLY PROCESSING NOW USES ALL MAPPINGS:***












In FY2005, all Project/Task Code Mappings are available to all FMC's. This change results in fewer unassigned records and more streamlined processing. There is no FMC dimension in the mapping table, so it is impossible to have different mappings for the same Project/Task in multiple FMC's.

## ***PPBES / STANDARDIZED TASK CODES / P00 DISCONTINUED:***

In FY2004, the “Task Code Working Group” defined approximately 750 standardized Task Codes which have been implemented for all projects codes. The implementation of PPBES led to the elimination of many existing project codes. As a result, the Cost Management mappings for non-labor now exist at the intersection of the Project Code and Task Code. (Formerly, these mappings were made at only the Project level.) In general, the use of P00 is no longer appropriate since it has been mapped to 99.1 Miscellaneous. FMCs should contact their budget officer to determine when the use of P00 may or may not be appropriate.

The Project/Task mapping to Cost Object is defined in a series of spreadsheets available in the NWS Data Warehouse at <http://rims.nws.noaa.gov>. The documents are included in the category “CM2 Cost Mgmt – News & Documentation.” Note that the Project Task structure in FY2005 is large and complex. The CM Team will work to refine and simplify the Task Code structure for FY2006. A list of the available mapping spreadsheets is included below:



- 
- ☐  [Project Code - OLD to NEW Map.xls](#)  
☐  [PTM NLSC Projects Mapping POSTCR FINAL.xls](#)  
☐  [PTM NLSC Projects Mapping.xls](#)  
☐  [PTM PAC Projects Mapping POSTCR FINAL.xls](#)  
☐  [PTM PAC Projects Mapping.xls](#)  
☐  [PTM PPA Projects Mapping POSTCR FINAL.xls](#)  
☐  [PTM PPA Projects Mapping.xls](#)  
☐  [PTM Regular Projects Mapping POSTCR FINAL.xls](#)  
☐  [PTM Regular Projects Mapping.xls](#)  
☐  [PTM REIMBURSABLE Projects Mapping POSTCR FINAL.xls](#)  
☐  [PTM REIMBURSABLE Projects Mapping.xls](#)

Note that the first document comprises a mapping from the CR (Continuing Resolution) Project Codes to the PostCR Project Codes.

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## ***CM2 ENVIRONMENT:***

In Q1 of FY2005, the Cost Management team implemented a technical overhaul of the existing CMS Reporting environment. All of the universes and reports were redesigned and rebuilt. The number of reports has been reduced and the report prompts have been made more flexible. Furthermore, the report categories have been redefined and simplified. These changes should facilitate better navigation within CMS. The CM2 Reporting environment categories are listed below. Not all users have access to all categories. Prototype Reports and Validation reports are restricted to members of the CM Team.

CM2 Cost Mgmt - Labor Survey
CM2 Cost Mgmt - News & Documentation
CM2 Cost Mgmt - Prototype Reports
CM2 Cost Mgmt - Standard Reports
CM2 Cost Mgmt - Validation

The categories can be described as follows:

1. Labor Survey – contains reports to assist in completing the labor survey and reports of historical survey data.
2. News & Documentation – contains general information about CM, mapping spreadsheets, and other documentation.
3. Prototype Reports – contains reports which have not yet been formally published.
4. Standard Reports – contains the 8 Standard Reports which are published quarterly.
5. Validation – contains output from quarterly CAMS/CBS validation routine.

Additional information on the reports contained in each category is included in the next section.

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## NON-LABOR PROCESSING

Non-Labor Costs are assigned within CMS based on the CAMS/CBS Project and Task Code Mapping. Users of this guide should contact the appropriate management or budget personnel in their FMC for specific guidance regarding appropriate Project Code usage.

Task Codes consist of 3 alphanumeric digits and are standardized across NWS. The list of 750 Standard Task Codes was defined by the Task Code Working Group. The combination of Project and Task is mapped to the Cost Object Codes. The mappings are defined in a series of five spreadsheets:

1. PPA
2. PAC
3. REIMBURSABLE
4. NLSC / SEC
5. REGULAR (All other)

The spreadsheets are available in the NWS Data Warehouse at <http://rims.nws.noaa.gov>. The list of Cost Objects is included in the category “CM2 Cost Mgmt – News & Documentation.” Please note that there are two versions of each spreadsheet:

1. Continuing Resolution (CR) for Q1
2. Post CR for Q2-4.

## UNASSIGNED PROCESSING

CM Quarterly Processing for Non-Labor uses a mapping table to assign non-labor costs from CAMS/CBS to Cost Objects in CMS. The mapping table comprises a relationship between Project/Task in CAMS/CBS and Cost Object in CMS. If no mapping table entry is found for a CAMS/CBS cost, the cost is marked as Unassigned and flagged for reconciliation. The CM Team analyzes the Unassigned transactions for each quarter and may, in some cases, contact the appropriate FMC to determine the proper mapping.

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## LABOR PROCESSING & LABOR SURVEY

Data on the distribution of employee time among Cost Objects is entered into CMS through the Labor Survey, which is completed quarterly. Each organization or office which has its own CAMS/CBS organization code and labor costs submits a Labor Survey for each quarter. Submitting organizations or offices include:

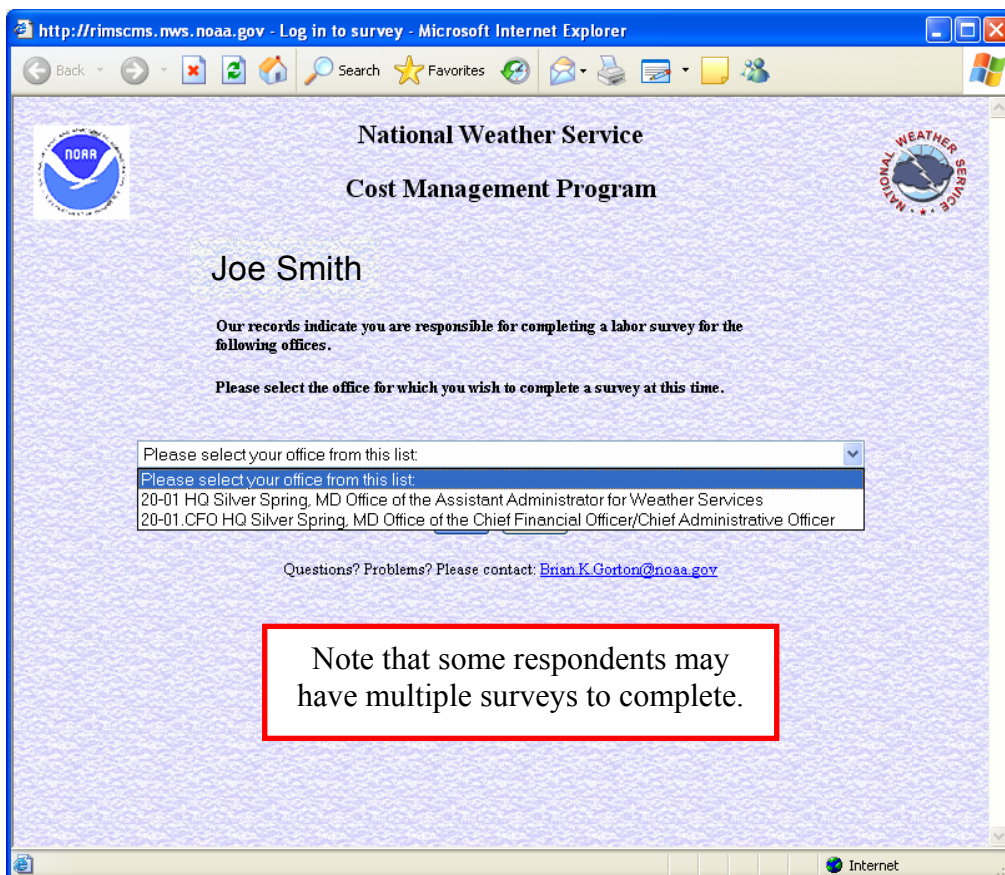
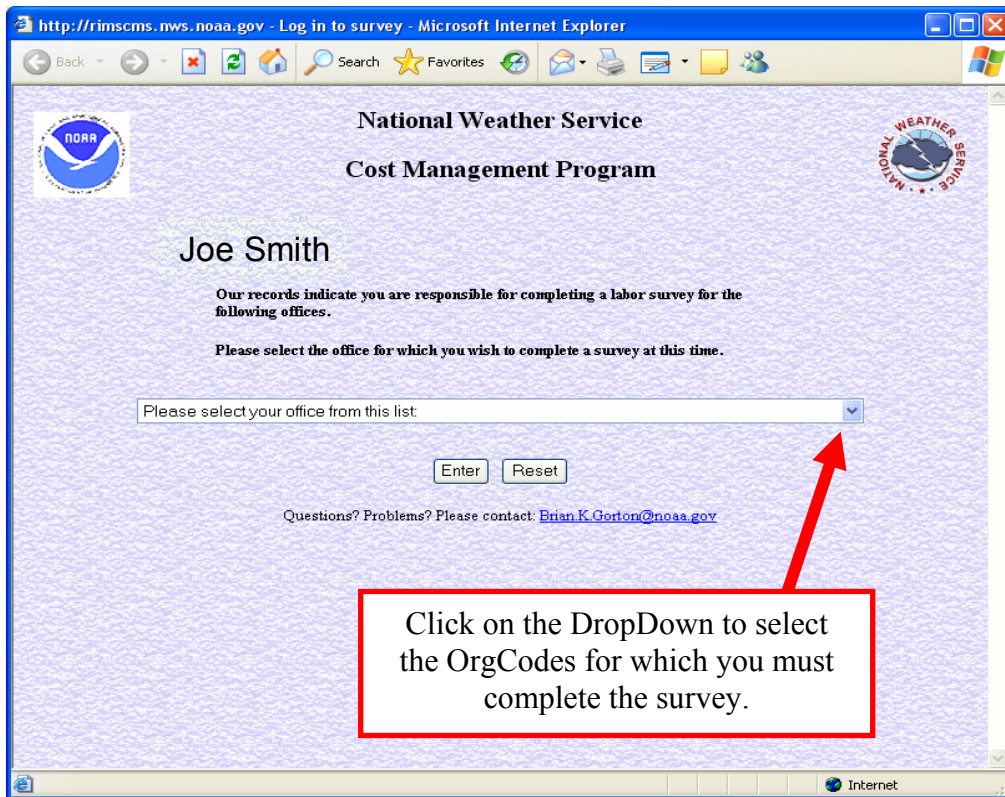
- Regional Headquarters Division Chiefs
- Regional Director's Office
- Weather Forecast Offices (WFO) and River Forecast Centers (RFC)
- Center Weather Services Units (CWSU)
- Other regional field offices as determined

For NWS Headquarters and National Centers for Environmental Prediction (NCEP) FMCs, a Labor Survey will be completed by the office organization code determined by FMC and CFO Office staff. Typically, this would be done at the organizational branch level.

The survey is web-based and is accessible via <http://rims.nws.noaa.gov>. Access the applicable organization's Labor Survey by:

- Selecting "Cost Management Labor Survey,"
- Enter the organization through the drop down menu,
- Enter the user ID and password (provided by the CFO financial systems staff).

Copies of the Labor Survey Screens are included in the following pages:





http://rimscms.nws.noaa.gov - Cost Management Labor Survey - Microsoft Internet Explorer

Back Search Favorites

## National Weather Service Office of the Assistant Administrator for Weather Cost Management Labor Survey for January 1 - March 31, 2005

Please review the following information. If any of this information is incorrect, please contact: [Lynne.Baronoff@noaa.gov](mailto:Lynne.Baronoff@noaa.gov).

Organization Code: 20-01-0000-00-00-00-00  
 Component Organizations: 20-01-0004-00-00-00-00, 20-01-00-0000-00-00-00, 20-01-9999-00-00-00-00, 20-01-0001-04-00-00-00, 20-01-0007-00-01-00-00, 20-01-0007-00-01-01-00, 20-01-0009-01-00-00-00, 20-01-0009-04-00-00-00  
 Organization Title: Office of the Assistant Administrator for Weather Services  
 Contact Person: **Joe Smith**  
 Phone Number:

In the form below, please enter the percentage of your staff's work time that was spent on each of the listed cost objects (e.g., Public Forecast Products, Maintain Facilities) from January 1 - March 31, 2005. Please note that the total must equal 100%. For further information on the types of work activities included in each cost object, please refer to the Cost Management Implementation Guide at [http://rimscms.nws.noaa.gov/CMIG/cost\\_mgt\\_impv1-0.pdf](http://rimscms.nws.noaa.gov/CMIG/cost_mgt_impv1-0.pdf). For further information on navigating and completing this form, please go to: [instructions.htm](#). If you have any questions regarding this survey, please contact: [Lynne.Baronoff@noaa.gov](mailto:Lynne.Baronoff@noaa.gov) or [Brian.K.Gorton@noaa.gov](mailto:Brian.K.Gorton@noaa.gov). For questions regarding this website, please contact: [Brian.K.Gorton@noaa.gov](mailto:Brian.K.Gorton@noaa.gov).

**Note: You must press *Submit Survey* at the end of the form to enter your responses into the cost management database.**

However, you may re-enter this site and revise your responses, if necessary, until March 28, 2005.

Cost Category/Cost Object:	% of Total Staff Work
<b>1.0 Services:</b>	
1.11 IFPS Forecast Product Generation	0.0 %
1.121 Non-IFPS Public Forecast Products	0.0 %
1.122 Non-IFPS Aviation Forecast Products	0.0 %
1.123 Non-IFPS Fire Weather Forecast Products	0.0 %
1.124 Non-IFPS Products & Research Products	0.0 %
<b>SubTotal:</b>	0.0 %
<b>4.0 Outreach:</b>	
4.1 Cooperative Observer Program	0.0 %
4.2 Services & Education Outreach Programs	0.0 %
<b>SubTotal:</b>	0.0 %
<b>5.0 Management/Admin:</b>	
5.1 Manage Human Resources	0.0 %
5.2 Diversity/EEO	0.0 %
5.3 Manage Fiscal Resources	0.0 %
5.4 International Activities	0.0 %
5.5 General Professional Development	0.0 %
5.6 Other Management Activities	100.0 %
5.7 Perform General/Admin. Work	0.0 %
5.8 IT Security--Program Management	0.0 %
5.9 A-76 Studies	0.0 %
<b>SubTotal:</b>	100.0 %
<b>6.0 Facilities:</b>	
6.1 Maintain Facilities	0.0 %
6.2 Environmental Compliance	0.0 %
6.3 Safety and Health Compliance	0.0 %
6.4 Facility Construction	0.0 %
6.5 Rent/Leases	0.0 %
6.6 Utilities	0.0 %
<b>SubTotal:</b>	0.0 %

Internet

Enter the percentage of Labor for each Cost Object in the list. Percentages must total to 100%.

Not all Cost Objects will appear for all Surveys. If you cannot identify an appropriate Cost Object on your survey, review the Master List of Cost Objects at the end of this Program Guide to determine whether you need to have additional Cost Objects added to your Survey.



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Each quarter, CFO Office staff will alert the FMC budget officers and Administrative Management Division Chiefs via email when the Labor Survey is available on the web. The Labor Survey is generally opened in the last 2 weeks of the quarter. Since the quarter is not over when the survey is completed, a small amount of estimating will be required. The FMC budget officers will then coordinate and provide the necessary information to their managers for Labor Survey completion. For difficulties with access, user ID, or password, contact the cost management staff listed in *CFO Office Cost Management Program Contacts*.

Only one Labor Survey is required for each organization. The organization's manager or designated personnel needs to assign the total productive work time of NWS staff on a percentage basis to the relevant Cost Object Code. If the organization's manager or designated representative is not available during the reporting period, a back-up arrangement must be made or the data must be entered remotely (access is web based). The FMC Contact is responsible for monitoring the completion status of the Labor Surveys for his or her FMC. The FMC Contact should review the list of non-respondents (available in the Data Warehouse under the "CM2 Cost Mgmt – Labor Survey" category) and remind them to complete the survey before the prescribed deadline.

All NWS staff paid through the office/organization code including any sector facility technicians (SFTs) and regional maintenance specialists (RMSs) are part of the organization labor cost. The percentage of time devoted toward each cost object is based on the whole staff, and the total percentage assigned must equal 100% (the web-based Labor Survey has a built-in check for this). Further instructions, navigational tips, and clarifications are found on the Labor Survey web site on the data entry form page. There is also a web link called "instructions.htm" that provides further information.

In determining labor costs by organization, all labor cost data from the CAMS/CBS accounting system is first segregated from non-labor charges by major object classes (11 and 12 series codes). After the appropriate labor cost by organization is determined this dollar value is then multiplied by the assigned labor percentage by cost object from the Labor Survey. The Cost Management System does not dictate or change the normal usage of Project Codes when entering time in the T&A system. The calculation of labor dollars is predicated on summarizing the charges to the object classes 11 and 12 regardless of the project associated with that particular time entry transaction. All non-labor costs in the Project Codes for each cost object are added together to determine the non-labor costs for a particular cost object.

The resulting labor and non-labor amounts will be combined by the CFO's Office in various quarterly cost management reports. For each organization code that submits a Labor Survey, there will be cost management reports showing costs (labor and non-labor) by cost categories and by cost object.



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## COST MANAGEMENT REPORTING

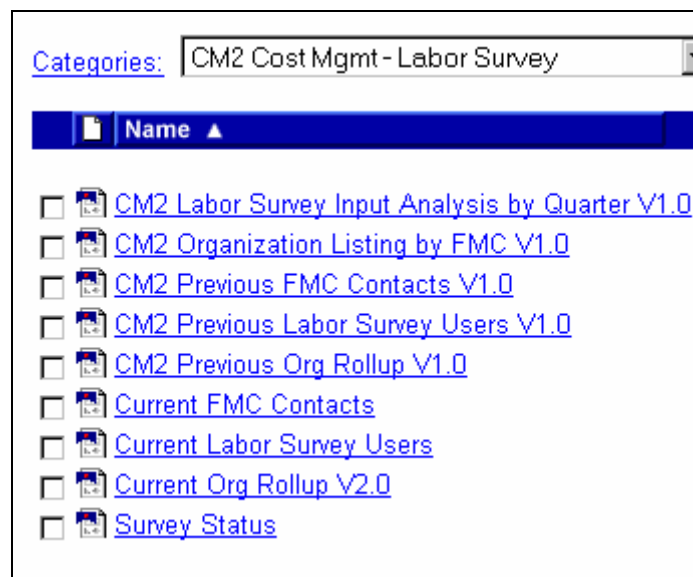
CMS provides standard reports which are contained in the NWS Data Warehouse at <http://rims.nws.noaa.gov>. Guidelines for using Business Objects to access reports and specific information on cost management can be found under the Cost Management link on the CFO web page at:

[http://www.weather.gov/cfo/comptroller/cost\\_management.htm](http://www.weather.gov/cfo/comptroller/cost_management.htm).

As noted above, CMS has been upgraded and a new version of the reporting environment has been implemented. The new CM2 environment contains eight standard reports as listed below:



In addition, the CM2 environment has a series of reports to support the Labor Survey process:



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## APPENDIX A – FREQUENTLY ASKED LABOR SURVEY QUESTIONS

**1. *Under what cost object do meetings with media contacts fall?***

Meetings with media contacts fall under cost object 4.2 - Service and Education Outreach Programs.

**2. *Under what cost object should staff meetings, management program reviews, etc. be classified?***

Meeting time should be classified under the cost object on which the meeting is primarily focused. General staff meetings that cover many areas would be reported under 5.7 - General and Administrative Functions, while management program reviews would be charged to 5.6 - Other Management Activities.

**3. *Where would I charge compilation of reports?***

If the reports are standard monthly reports, report the time under 5.6 - Other Management Activities. If the report relates to a specific severe weather event (such as a verification report), report the time under 1.21 - Severe/ Hazardous Weather Products.

**4. *Under what cost object should I classify time spent developing internet products?***

It depends what the Internet products are for. If they are for disseminating information to the public, report the time as 2.33 - Other Dissemination Systems. If the products are for general office use, report the time as 2.5 - Other IT Systems.

**5. *How do I report time spent on IT systems supporting management and administrative functions?***

Only time spent on a specific management/administrative IT system would be reported under one of the Management and Administration cost objects. For example, if staff supported the deployment of CAMS/CBS (the new finance system) then report the time under 5.3 - Manage Fiscal Resources.

However, if your staff supports many different systems, such as a help-desk operation, then report the time under 2.5 - Other IT Systems. The general rule is if you can not easily trace time to one of the listed systems, telecommunications, or IT security then report the time under 2.5.

**6. *What process should I use to estimate the overall distribution of staff time for my department?***

There are a couple of ways to go about estimating staff time distribution.

- 
- Manager estimates percentages for division as a whole.
  - Each employee reports his/her own estimate; average of all employees reported for division.

**7. *Should employee salary be used as a weight when determining the overall estimation for my WFO/Office?***

No.

**8. *How often will I need to fill out a labor survey? How is the survey expected to be administered in its maturity?***

Currently, labor surveys are prepared quarterly. We are exploring other data collection options but we have no immediate plans to change it at this time.

**9. *How will the data produced by the Cost Management Program help us achieve the NWS mission?***

The data will give us more insight into where NWS funds are being spent. This will allow us to manage costs more efficiently.

**10. *Should contractors be included in the labor survey? Time spent working on contracts?***

No, contractors are not included in the labor survey. The project and task codes determines to which cost object contractor costs are charged.

**11. *Does the current T&A reporting change?***

No, the Cost Management System has no impact on T&A reporting at this time. A few offices participating in a new Web TA pilot will report labor in that system. However, we will continue the labor survey for Fiscal Year 2005. Once WEBTA is fully implemented throughout NWS, the CM Team may use WEBTA to allocate labor dollars to the appropriate Cost Objects.

**12. *Should I include employee overtime, compensatory time, credit hours, leave, and benefits in my staff time estimates?***

All productive hours, including overtime, comp time, and credit hours should be included as part of the 100% of staff time for purposes of the labor survey. Do not include leave and benefits.

**13. *Under which cost object do I place training for systems (i.e. AWIPS or NEXRAD)?***

Training for systems is charged directly to the specific system. For systems with multiple Cost Objects (e.g., AWIPS Development or AWIPS Deployment) charge training to the most closely related cost object. For example, if the training is related to

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the deployment of a new system then record the time to System Deployment. If your office does not have PPA funds for the specific system (AWIPS or NEXRAD) use the Base Project Codes and applicable Cost Object.

***14. Do I submit one survey for each section in my branch, or a survey for the branch as a whole?***

If the sections have a separate organization code in the financial system then you would report for each section, but generally you would submit one survey for the branch as a whole.

***15. What should I do if a large amount of employee time is spent on a cost object that does not appear in the survey?***

Contact the Cost Management staff to discuss the situation.

***16. Where do I report science and technology infusion planning.***

Report under the most closely related Technology Infusion cost object, 3.1 through 3.4, or under if 3.5 - Other Technology Infusion.

***17. How will I be able to access the survey input data?***

URL: <http://rims.nws.noaa.gov>

Link: NWS Data Warehouse

Report Category: CM2 Cost Mgmt - Labor Survey

Report: Previous Labor Survey Percentages

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## APPENDIX B - Cost Category Definitions

### 1.0 Services

Includes the development and preparation of Weather and climate forecast products and severe/hazardous weather products.

Services also includes all forecast and warnings-related work, such as monitoring weather conditions, manipulating and maintaining data and databases, verification, reporting, internal/external coordination, dissemination, training, policy development, planning, managing and similar service-related activities.

Work related to data acquisition or observing is not considered a component of the Services Cost Category and should be reported under the Systems Cost Category.

### 2.0 Systems

All activities related to weather information technology systems, including data acquisition/observing systems; data integration, analysis and modeling systems; and, dissemination systems. This category also includes telecommunications systems and other information technology systems, except those associated with support functions, such as Finance and Personnel. Systems-related activities include:

- Program management (e.g., planning; policy, procedure and budget development; and, quality assurance)
- Administration (e.g., configuration management)
- Developing, purchasing, shipping, installing, testing and certifying new hardware and/or software
- Technical support (e.g., support to the field)
- Developing, conducting, attending, administering and coordinating systems-related training
- Data acquisition/observing
- Special projects
- Similar systems-related activities.

Also included in this cost category are IT security technical controls (i.e. development, implementation, operation, monitoring and maintenance of firewalls, intrusion detection systems, security-related hardware and software, virus detection software, back-up, alternate and hot sites and off-site storage). All IT security technical controls activities related to most NWS systems are reported under a single, combined system security technical controls cost object (2.6). However, IT security technical controls activities are reported separately for each of the major NWS systems (i.e. NEXRAD, ASOS and AWIPS) (2.114, 2.124 and 2.214). Work related to Information Technology (IT) security, other than technical controls, should not be reported within the Systems cost category. Instead it should be reported under

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IT Security Program Management (5.8).

Information technology systems that support management and administrative functions (e.g., the Commerce Business System and the Consolidated Logistics System) should not be reported under this cost category; but, instead, should be reported under the cost object related to that system's function (e.g., Manage Fiscal Resources (5.3)).

### **3.0 Technology Infusion**

**The Technology Infusion** cost category includes all research and similar activities, such as IFPS development, data assimilation, model development, guidance/product development and quality assessment and forecaster applications (e.g., SOOs, TDGs), intended to support forecasting improvements.

### **4.0 Outreach**

The Outreach cost category includes all activities and products designed for external audiences, which convey an awareness of the value and usefulness of NOAA/NWS science, products, programs and services in promoting personal safety, an improved economy and more effective environmental stewardship.

### **5.0 Management and Administration**

The Management and Administration cost category includes all activities related to the overall management and direction of the NWS' resources to achieve the NWS mission. Management and administrative activities related to NWS program-specific services and systems are not included in this cost category.

### **6.0 Facilities**

The Facilities cost category includes all activities related to NWS facilities.

### **7.0 Congressional Earmarks and Special Projects**

The Congressional Earmarks and Special Projects cost category includes all activities that are separately identified in the NWS' appropriation. Such activities typically do not span across Financial Management Centers (FMCs). Therefore, the specific cost objects within this cost category for each FMC are listed separately. Moreover, the Congressional Earmarks and Special Projects cost object numbers (e.g., 7.1, 7.5) on each FMC's labor survey may not include all numbers in sequence.

### **8.0 Reimbursables/Line Office Transfers**

The Reimbursables/Line Office Transfer cost category includes all activities that the NWS performs for other agencies (e.g., the Federal Aviation Administration, Bureau of Land Management/US Forest Service, Office of Oceanic and Atmospheric Research). Such

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activities typically do not span across FMCs. Therefore, the specific cost objects within this cost category for each FMC are listed separately.

## **9.9     Miscellaneous**

Includes only those costs that cannot otherwise be attributed to any other cost category/cost object, or costs attributable to multiple cost objects that can not easily be assigned to those cost objects.

## APPENDIX C - Cost Object Definitions

COST CATEGORY	COST OBJECT CODE	COST OBJECT DESCRIPTION	COST OBJECT DEFINITION
Services	1.11	IFPS Forecast Product Generation	The simultaneous development and preparation of multiple types of forecasts and meteorological data products using the Interactive Forecast Preparation System (IFPS) from a common digital database (e.g., ZFP, RDF, CCF). This includes scheduled and event-driven forecast products, program-wide products and weather data service products (e.g., state weather summaries).
Services	1.121	Non-IFPS Public Forecast Products	The development and preparation of public forecast and meteorological data products and services. This includes scheduled and event-driven public forecast products, weather data service products and area forecast discussions (AFD), as well as the general provision of weather data to the public.
Services	1.122	Non-IFPS Aviation Forecast Products	The development and preparation of aviation forecasts, such as TAF, TWEB, METARS, Area Forecasts (AF) and Winds Aloft Forecasts.
Services	1.123	Non-IFPS Fire Weather Forecast Products	The development and preparation of fire weather products, such as Fire Weather (Zone) Forecasts, Fire Danger Statements, Smoke Management Forecasts, Spot Forecasts and Fire Weather Trend Forecasts.
Services	1.124	Non-IFPS Hydrologic Forecast Products	The development and preparation of hydrologic forecast products, such as River Stage Information/Statement, Hydrologic Summaries, Daily River and Lake Summaries, Precipitation and Temperature and Hydrologic Outlooks, and including Advanced Hydrologic Prediction Services.
Services	1.125	Non-IFPS Marine Weather Products	The development and preparation of marine weather products, such as Bay and Coastal, Offshore, High Seas, Recreational, Great Lakes Open Lake and Near Shore and Surf Forecasts and Area Discussions.
Services	1.126	Non-IFPS Climate Products	The development and preparation of climate products, such as 6-10 Day, Week 2, 30-Day, 90-Day Outlooks, Hazards Assessment and ENSO Discussion, as well as the preparation of Daily and Monthly Climate Summaries.
Services	1.21	Severe/Hazardous Weather Products	The development and preparation of severe/hazardous weather products, other than hurricane/tropical weather, tsunami and volcanic ash. This includes discussions, advisories, statements, watches and warnings related to public, aviation, marine or fire weather and hydrologic operations, as well as HAZMAT weather support.
Services	1.22	Hurricane/Tropical Weather Products	The development and preparation of all hurricane and tropical weather products, such as: Tropical Weather Outlook, Hurricane/Tropical Cyclone/Storm warnings, watches, advisories, discussions and strike possibilities; Cyclone Updates; and, Disturbance Statements.
Services	1.23	Tsunami Warnings	The development and preparation of all Tsunami Warning Products.
Services	1.24	Volcanic Ash Forecast Products	The development and preparation of Volcanic Ash Forecast Products.



Services	1.25	Susquehanna River Basin Flood Systems	The development and preparation of Susquehanna River Basin Flood Systems.
Services	1.26	Surface Weather	All surface weather observing systems (AWOS, SAWRS, LAWRS) and the new NOAA Surface Weather Program for the Observing Systems Division. This program will support surface transportation across the nation with road-relevant observations, forecasts and warnings.
Systems	2.111	NEXRAD Development	All activities related to the development of the NEXRAD system, when the functionality being developed represents a significant improvement to existing capabilities. Examples include: system architecture design; prototyping hardware or software; and, developing, testing and debugging software modules or builds.
Systems	2.112	NEXRAD Deployment	All activities related to the incorporation (i.e. deployment; implementation) of new hardware or software into the existing, operational NEXRAD system, when the functionality being incorporated represents a significant improvement to existing capabilities. Examples include: purchasing, shipping, installing, testing and certifying new hardware or software; ORPG; and, training on the new hardware or software.
Systems	2.113	NEXRAD Operations and Maintenance	All activities related to the normal, continuing operations and maintenance of the NEXRAD system, such as replacing or maintaining hardware or software, when such hardware or software does not represent a significant improvement to existing capabilities. Examples include: purchasing, shipping, installing, testing and certifying replacement hardware or software; modifying existing software to correct technical problems (including marginal improvements in functionality); monitoring system performance; hardware and
Systems	2.114	NEXRAD IT Security Technical Controls	All activities related to the development, implementation, operation, monitoring and maintenance of system security technical controls (e.g., firewalls, intrusion detection systems). Examples include: security training; purchasing, shipping, installing, testing and certifying hardware and software intended primarily to effect or improve system security technical controls; and, providing off-site storage.
Systems	2.121	ASOS Development	All activities related to the development of the ASOS system, when the functionality being developed represents a significant improvement to existing capabilities. Examples include: system architecture design; prototyping hardware or software; and, developing, testing and debugging software modules or builds.
Systems	2.122	ASOS Deployment	All activities related to the incorporation (i.e. deployment; implementation) of new hardware or software into the existing, operational ASOS system, when the functionality being incorporated represents a significant improvement to existing capabilities. Examples include: purchasing, shipping, installing, testing and certifying new hardware or software; and, training on the new hardware or software.

Systems	2.123	ASOS Operations and Maintenance	All activities related to the normal, continuing operations and maintenance of the ASOS system, such as replacing or maintaining hardware or software, when such hardware or software does not represent a significant improvement to existing capabilities. Examples include: purchasing, shipping, installing, testing and certifying replacement hardware or software; modifying existing software to correct technical problems (including marginal improvements in functionality); monitoring system performance; hardware and software preventive and corrective maintenance, operational system communication services; and, technical support.
Systems	2.124	ASOS IT Security Technical Controls	All activities related to the development, implementation, operation, monitoring and maintenance of system security technical controls (e.g., firewalls, intrusion detection systems). Examples include: security training; purchasing, shipping, installing, testing and certifying hardware and software intended primarily to effect or improve system security technical controls; and, providing off-site storage.
Systems	2.13	Upper Air/Radiosonde	All activities (excluding IT security) related to the development, deployment, operations and maintenance of the upper air/radiosonde programs. Examples include: taking upper air observations; purchasing equipment; and, related training.
Systems	2.14	Satellite Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of satellite systems. Examples include: interagency coordination; system monitoring; and, quality assurance.
Systems	2.15	Cooperative Observer System	All activities (excluding IT security) related to the development, deployment, operations and maintenance of the Cooperative Observer System. Examples include: purchasing and shipping equipment; taking local NWS Coop Station observations; and, collecting and processing Coop Observer real-time reports.
Systems	2.16	Hydrologic Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of hydrologic systems, such as IFLOWS and HADS. Examples include: collecting and processing remote hydro data-DCP, LARC Alerts and precipitation observations; developing, testing and debugging software modules or builds; and, purchasing, shipping, installing, testing and certifying hardware (e.g., river gauges) and software.
Systems	2.17	Marine Weather Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of marine weather systems, such as CMAN and Dial-a-buoy. Examples include: operations and maintenance of F420 marine wind systems; and, purchasing, shipping, installing and testing marine system-related equipment.
Systems	2.18	Other Data Acquisition and Observing Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of data acquisition and observing systems that are not separately identified. Examples include: taking local SFC Obs-SCD, SDO and climate observations; conducting/managing UCP tasks; Aviation Observing Program Management, including SAWRS; and, observational quality assurance.
Systems	2.211	AWIPS Development	All activities related to the development of the AWIPS system, when the functionality being developed represents a significant improvement to existing capabilities. Examples include: system architecture design; prototyping hardware or software; and, developing, testing and debugging software modules or builds.

Systems	2.212	AWIPS Deployment	All activities related to the incorporation (i.e. deployment; implementation) of new hardware or software into the existing, operational AWIPS system, when the functionality being incorporated represents a significant improvement to existing capabilities. Examples include: purchasing, shipping, installing, testing and certifying new hardware or software; and, training on the new hardware or software.
Systems	2.213	AWIPS Operations and Maintenance	All activities related to the normal, continuing operations and maintenance of the AWIPS system, such as replacing or maintaining hardware or software, when such hardware or software does not represent a significant improvement to existing capabilities. Examples include: purchasing, shipping, installing, testing and certifying replacement hardware or software; modifying existing software to correct technical problems (including marginal improvements in functionality); monitoring system performance; hardware and software preventive and corrective maintenance, operational system communication services; and, technical support.
Systems	2.214	AWIPS IT Security Technical Controls	All activities related to the development, implementation, operation, monitoring and maintenance of system security technical controls (e.g., firewalls, intrusion detection systems). Examples include: security training; purchasing, shipping, installing, testing and certifying hardware and software intended primarily to effect or improve system security technical controls; and, providing off-site storage.
Systems	2.22	Weather and Climate Primary Supercomputer O&M	All activities (excluding IT security) related to the operation and maintenance of the weather and climate primary supercomputer. Examples include: preventive and corrective maintenance; system monitoring; and, system training.
Systems	2.23	Weather and Climate Back Up Supercomputer O&M	All activities (excluding IT security) related to the operation and maintenance of the weather and climate back-up supercomputer. Examples include: preventive and corrective maintenance; system monitoring; and, system training.
Systems	2.31	NWR/CRS	All activities (excluding outreach and IT security) related to the development, deployment, operations and maintenance of NWR/CRS. Examples include: purchasing, shipping, installing and testing equipment; system monitoring; and system training.
Systems	2.32	NWWS/EMWIN	All activities (excluding outreach and IT security) related to the development, deployment, operations and maintenance of NWWS/EMWIN. Examples include: operations; preventive and corrective maintenance; and, system training.
Systems	2.33	Other Dissemination Systems	All activities (excluding outreach and IT security) related the development, deployment, operations and maintenance of other dissemination systems, such as the Family of Services (FOS) and the Interactive Weather Information Network (IWIN). Examples include: purchasing, shipping, installing and testing equipment; system monitoring; and system management and administration.
Systems	2.4	Telecommunications Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of telecommunications systems, such as phone lines and other telecommunication services that are not for the exclusive use by one particular system. Examples include: local and long distance telephone service; the telecommunications gateway; and, commercial internet services.

Systems	2.5	Other IT Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of IT systems (hardware and software) that are not otherwise separately identified, such as office PC systems; office Local Area Networks (LANs); EMRS; and, global positioning systems. Examples of Other IT Systems activities include: purchasing and installing hardware and software; preventive and corrective maintenance; and system-related training. Note: IT systems solely supporting management and administrative functions, such as Finance and Personnel, should not be reported under this cost object; these systems should be reported under the related cost object within the Management and Administration cost category (5.0).
Systems	2.6	IT Security Technical Controls (All Other Systems)	All activities related to IT security (excluding IT security program management) for all NWS systems, except NEXRAD, ASOS and AWIPS. Examples include: installing, testing and monitoring firewalls; operating and maintaining virus detection software; and, security technical controls-related training.
Technology Infusion	3.1	Meteorological Tech Infusion	Research and similar activities related to improving short-term (i.e. up to two weeks) weather forecasting.
Technology Infusion	3.2	Climate Tech Infusion	Research and similar activities related to improving long-term (i.e. beyond two weeks) weather forecasting.
Technology Infusion	3.3	Ocean Tech Infusion	Research and similar activities related to improving oceanographic forecasting.
Technology Infusion	3.4	Hydrological Tech Infusion	Research and similar activities related to improving forecasting of river and lake conditions, including the development of Advanced Hydrologic Prediction Services (AHPS).
Technology Infusion	3.5	Other Tech Infusion	Research and similar activities related to improving aspects of weather forecasting not otherwise separately identified.
Outreach	4.1	Cooperative Observer Program	All outreach activities related to the Cooperative Observer Program. Such activities include: recruitment; site visits to present awards and recognition to cooperative observers; completing outreach related paperwork; monitoring program quality; planning, implementing and monitoring program outreach initiatives; preparing and coordinating Cooperative Observer network newsletters; and program-related travel, training, policies and directives.
Outreach	4.2	Services & Education Outreach Programs	All outreach activities related to services and systems other than the Cooperative Observer Program. Examples include: outreach activities in support of Severe/Hazardous Weather, Marine Weather, Hurricanes, Climate Services, Tsunami and Volcanic Ash Services, NWR expansion and Storm Ready; PMO activities; Alaska Weather TV; visits with the media, emergency managers, transportation officials and schools; open houses; public/community education meetings and partner workshops; preparing and coordinating pamphlets, newsletters, brochures, videos, posters, CD-ROMS, and other materials; and, outreach-related travel and training.
Management/Admin	5.1	Manage Human Resources	All activities related to the effective, efficient and legal management of the NWS' human resources. Examples include: supervision; recruitment; resolving employee disputes; coordinating labor-management relations; scheduling shift work; developing staffing plans; and related training (e.g., team training).

Management/Admin	5.2	Diversity/EEO	All activities related to the NWS= responsibilities to support equal employment opportunity and diversity. Examples include: recruitment and retention activities focused on women, minorities and people with disabilities; providing guidance, advice and policy statements on equal opportunity and diversity; diversity/EEO training; and, conducting and coordinating equal opportunity investigations.
Management/Admin	5.3	Manage Fiscal Resources	All activities related to the general or overall management of the NWS's financial resources. Examples include: budget formulation and execution; financial systems (e.g., the Commerce Administrative Management System and the Consolidated Logistics System) development and operations; financial reporting; financial management training; and, resolving audit issues.
Management/Admin	5.4	International Activities	All activities related to the international interests of the U.S. meteorologic and hydrologic communities, except where such activities are related specifically to other cost objects. Examples include: coordinating and attending international meetings and conferences regarding meteorology (e.g., World Meteorological Organization conferences); assisting other countries in crisis with meteorological and hydrologic support; and, managing bilateral technology transfer and data exchange.
Management/Admin	5.5	General Professional Development	All activities related to staff development, except when such activities are related specifically to other cost objects. This also includes preparing, planning and conducting such classes. Examples include: taking leadership and management training; reading professional journals; and, attending regional workshops/conferences (e.g., MIC/HIC) that are general in nature and cover material on many different NWS services, systems or other functions.
Management/Admin	5.6	Other Management Activities	All activities related to the management of the NWS, except when such activities are related specifically to other cost objects. Examples include: overall strategic planning; preparing and monitoring operating plans; participating in other NWS initiatives/special projects; reporting performance measures; conducting organizational studies; internal/employee communications, ensuring Homeland Security (except as included in other cost objects); and, responding to Congressional inquiries.
Management/Admin	5.7	Perform General/Admin. Work	All administrative activities that are not specifically related to other cost objects. Examples include: procuring and managing supplies; performing general office support; managing mail and shipping activities; arranging travel; and handling administrative e-mail.
Management/Admin	5.8	IT Security--Program Management	All activities related to IT security, other than technical controls. Examples include: developing IT security plans, reviewing security program compliance; conducting IT risk assessments; responding to IT security incidents; and, participating in security awareness training.
Management/Admin	5.9	A-76 Studies	All activities related to planning, conducting, and analyzing A-76 studies, including contracted services acquired to support and conduct an A-76 studies. Also includes work related to acquiring contract services to support and conduct an A-76 study.

Facilities	6.1	Maintain Facilities	All activities related to the maintenance of any NWS facility, including the buildings and grounds that house NWS equipment, such as NEXRAD towers. Examples include repairing facilities and arranging for facility repairs, coordinating SFT on-site oversight and managing facilities maintenance. Note: All activities associated with providing Physical Security to NWS facilities should be charged to the new Physical Security cost object.
Facilities	6.2	Environmental Compliance	All activities necessary to comply with internal, local, state and federal environmental laws, rules and regulations. For additional information on compliance reference the NWS Environmental Management Manual (NWSM-50-1116) Examples include: responding to environmental incidents; restoring and decontaminating sites; conducting environmental assessments; environmental compliance training; and, participating in waste and pollution prevention and recycling.
Facilities	6.3	Safety and Health Compliance	All activities necessary to comply with NWS Occupational Safety and Health Manual (NWSM-50-1115). Examples include: analyzing site operations versus requirements; participating in training and testing related to safety and health (e.g., fire drills); and, maintaining safety and health equipment.
Facilities	6.4	Facility Construction	All activities related to the construction of NWS facilities. Examples include: procuring and managing facilities design and build support; PDAM-related activities (FOC meeting preparation and coordination); and maintaining documentation.
Facilities	6.5	Rent/Leases	All activities related to administering rent/leases.
Facilities	6.6	Utilities	All activities related to administering office utilities.
Earmarks	7.11	NWS Construction (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.12	NCEP Construction (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.13	NWS Construction-Huntsville (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.14	WFO Maintenance (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.15	Pacific Island Compact	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.16	French Polynesia Sea-level	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.17	Hurricane Mitigations Alliance (SUSF)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.18	Pacific Ocean Monit. Buoy Augm.	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.21	ASOS Development (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.23	ASOS O&M (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.

Earmarks	7.25	ASOS AK Aviation (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.26	PPA USWRP	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.27	PPA USWRP - THORPEX	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.31	AWIPS Development (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.32	AWIPS Deployment (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.33	AWIPS O&M (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.41	NEXRAD Development (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.43	NEXRAD O&M (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.45	Evansville Doppler Radar (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.46	WSR-88D (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.47	NEXRAD TPMS - CWIP	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.48	NOAA Profiler Network	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.49	Tsunami Hazard Mitigation	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.5	Tsunami Warning & Environ. Obs. AK	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.51	Radiosonde Replacement (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.52	Cooperative Observer System (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.53	AHPS (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.54	New England Technology Initiative	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.55	Data Buoys - Alaska (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.56	Data Buoys - New England (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.



Earmarks	7.57	Mt. Washington Observatory (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.58	N. Dakota Agricultural Weather Network (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.59	Data Buoys - California (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.61	NWR (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.62	Phased Array Radar/Engineering/Manuf.	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.63	All Haz. Nat'l Warning Network (NWR)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.64	NOAA Science Center	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.65	Weather & Climate Supercomp Bkup	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.66	PPA Repair & Replacement of Caribbean Nation Equipment	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.67	PPA Data Buoy Repair	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.68	PPA Repair and Replacement of NWR Equipment	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.71	Central Computer Upgrade (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.73	NWSTG Backup (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.74	PPA HI Data Buoys	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.75	PPA Red River Basin Institute / Decision Info Network	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.751	Space Weather Forecast & Specification Products	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.752	GOES Acquisition for Space Weather	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.753	Polar Acquisition for Space Weather	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.754	Space Weather Systems	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.755	Space Weather Technology Infusion	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.



Earmarks	7.756	Product Development & Transition	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.76	PPA Vermont Northeast Weather & Wind Data Integration	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.77	PPA NOAA Weather Radio NWR HI	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.81	Aviation Forecast (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.82	Maintain Facilities	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.83	PPA Installation of new Marine Buoys	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.84	PPA Research & Model Improvement	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.91	NC Flood Plain Mapping Pilot (Earmark)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.92	Air Quality	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.93	High Resolution Temperature Forecasts	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.94	PAC Coastal Global Observing System	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.95	PAC COOP Modernization	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Earmarks	7.96	PPA Advanced Hydrologic Prediction Service	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.101	NASA Johnson Space Center	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.102	Center Weather Services Unit	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.103	Cost of Going Fires (Forest Service)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.104	Weather Services for Republic of Palau	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.105	Famine Early Warning System (FEWS)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.106	FAA Academy - Oklahoma City	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.107	The Compact Support	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.

Reimbursables	8.108	World Area Forecast System (WAFS)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.109	WSO/Majuro (DOI)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.11	Mexico Water Resource Mgmt (World Bank)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.111	US VCP	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.112	HG Air Wea. Svc.	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.21	ASOS Product Improvement	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.22	ASOS Production & Maintenance (FAA)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.23	ASOS Repair Acct (NRC)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.31	NEXRAD Product Improvement, Open RPG & RDA	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.32	NEXRAD Support (USAF)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.33	NEXRAD Spares (USAF)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.34	NEXRAD Support (FAA)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.35	NEXRAD Repair Acct (NRC)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.41	Remote Sensing of Hydrologic Data	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.42	MMS - Gulf of Mexico Buoys	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.43	Buoy Project (FAA)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.44	Eight Buoy Network California Coast	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.45	Passaic Flood Warning System Program	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.46	Atmospheric Infrared Sounder (AIRS)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.51	Aviation Weather Research (FAA)	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.

Reimbursables	8.52	Hydrometeorological Studies	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.53	HQ FAA	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.61	ARSAD Project	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.62	Louisiana Catastrophic Exercise	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.701	Joint NWS/FAA ASOS Project	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.702	Navy	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.705	Coop Rvr & Rainfall Reporting Stas	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.71	NRC Weather Equipment Repair Account	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.72	FAA Spares	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.73	JCSDA DODGE	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.74	VOLPE	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.75	RSSA Agreement	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.76	Lightning Data-Natl Interagency Fire Ctr	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.77	NEXRAD Product Imprv DOD OPUP	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.78	COMET/UCAR - CANADA	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.79	COOP RVR & Rainfall Reporting STAS	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.81	USAF Lightning Data	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.82	NEXRAD Product Imprv DOD ORPG	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.
Reimbursables	8.99	All Other Reimbursables	PAC, PPA, and REIMBURSABLE Projects are not explicitly defined in Cost Management. Please refer to the Project Definition in the appropriation.

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Miscellaneous	99.1	Miscellaneous	The "Miscellaneous" cost category includes only those costs that cannot otherwise be attributed to any other cost category/cost object, or costs attributable to multiple cost objects that can not easily be assigned to those cost objects. Examples include: general office supplies.
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